

## SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830

### SECTION 1: Identification of the substance/mixture and of the company/ undertaking

#### 1.1 Product identifier

**Product identifier** : 1250059222  
**Product name** : DuPont™  
MB-46701  
Marine Finishes Basecoat  
**Product type** : Liquid.  
**Other means of identification** : Not available.  
**Date of issue** : 2 March 2020  
**Version** : 1  
**Date of previous issue** : No previous validation

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** : Coating component for professional use.  
**Uses advised against** : For industrial use only by trained professionals. Not for sale to or use by consumers.

#### 1.3 Details of the supplier of the safety data sheet

Axalta Coating Systems Germany GmbH & Co. KG  
Christbusch 25  
DE 42285 Wuppertal  
+49 (0)202 529-0  
**e-mail address of person responsible for this SDS** : sds-competence@axalta.com

#### 1.4 Emergency telephone number

**Supplier**  
+(48)-223988029

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

#### **Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

Flam. Liq. 3, H226  
Acute Tox. 4, H332  
Skin Irrit. 2, H315  
Eye Irrit. 2, H319  
STOT SE 3, H335  
STOT SE 3, H336

## SECTION 2: Hazards identification

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

**Ingredients of unknown toxicity** : 10.4 percent of the mixture consists of component(s) of unknown acute oral toxicity  
17.1 percent of the mixture consists of component(s) of unknown acute dermal toxicity  
22.5 percent of the mixture consists of component(s) of unknown acute inhalation toxicity

**Ingredients of unknown ecotoxicity** : Contains 29.7 % of components with unknown hazards to the aquatic environment

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Hazard pictograms** :



**Signal word** : Warning

**Contains** : xylene  
n-butyl acetate

**Hazard statements** : H226 - Flammable liquid and vapour.  
H332 - Harmful if inhaled.  
H319 - Causes serious eye irritation.  
H315 - Causes skin irritation.  
H335 - May cause respiratory irritation.  
H336 - May cause drowsiness or dizziness.

### Precautionary statements

**Prevention** : P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Response** : P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

**Storage** : P405 - Store locked up.

**Disposal** : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Supplemental label elements** : Contains 2-ETHYLHEXYL METHACRYLATE. May produce an allergic reaction.

**Supplemental label elements (CEPE)** :

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Restricted to professional users.

**SECTION 2: Hazards identification****2.3 Other hazards**

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other hazards which do not result in classification** : None known.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures** : Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥10 - ≤25	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304	[1] [2]
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1] [2]
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6	≤10	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4	≤7.3	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
DIISOBUTYL KETONE	REACH #: 01-2119474441-41 CAS: 108-83-8	≤5	Flam. Liq. 3, H226 Eye Irrit. 2, H319	[1] [2]
PROPYLENEGLYCOLDIACETATE	REACH #: 01-2119892736-20 CAS: 623-84-7	≤3	Eye Irrit. 2, H319	[1]
Solvent naphtha (petroleum), light arom.	REACH #: 01-2119455851-35 EC: 265-199-0 CAS: 64742-95-6	≤1.7	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1]
ethyl 3-ethoxypropionate	REACH #: 01-2119463267-34 EC: 212-112-9 CAS: 763-69-9	≤3	Flam. Liq. 3, H226 EUH066	[1]
2-methylbutyl acetate	EC: 210-843-8 CAS: 624-41-9	≤1	Flam. Liq. 3, H226 EUH066	[1]
toluene	REACH #:	≤0.2	Flam. Liq. 2, H225	[1] [2]

**SECTION 3: Composition/information on ingredients**

2-ETHYLHEXYL METHACRYLATE	01-2119471310-51 EC: 203-625-9 CAS: 108-88-3  REACH #: 01-2119490166-35 CAS: 688-84-6	≤0.2	Skin Irrit. 2, H315 Repr. 2, H361d (Unborn child) (inhalation) STOT SE 3, H336 STOT RE 2, H373 (central nervous system (CNS)) (inhalation) Asp. Tox. 1, H304 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 STOT SE 3, H335 Aquatic Chronic 3, H412	[1]
copper	CAS: 7440-50-8	≤0.1	Aquatic Acute 1, H400 (M=10) Aquatic Chronic 3, H412 <b>See Section 16 for the full text of the H statements declared above.</b>	[1] [2]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

- General** : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
- Eye contact** : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
- Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.

## SECTION 4: First aid measures

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

### 4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains 2-ETHYLHEXYL METHACRYLATE. May produce an allergic reaction.

### 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** : No specific treatment.

See toxicological information (Section 11)

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** : Recommended: alcohol-resistant foam, CO<sub>2</sub>, powders, water spray.

**Unsuitable extinguishing media** : Do not use water jet.

### 5.2 Special hazards arising from the substance or mixture

**Hazards from the substance or mixture** : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

**Hazardous combustion products** : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

### 5.3 Advice for firefighters

**Special protective actions for fire-fighters** : Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

## SECTION 5: Firefighting measures

**Special protective equipment for fire-fighters** : Appropriate breathing apparatus may be required.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.

**For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**6.2 Environmental precautions** : Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

**6.3 Methods and material for containment and cleaning up** : Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.

**6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

**7.1 Precautions for safe handling** : Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type. Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel. Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or watercourses.

**Information on fire and explosion protection**  
Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

## SECTION 7: Handling and storage

### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

#### Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

#### Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

### 7.3 Specific end use(s)

**Recommendations** : Not available.

**Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	CAS no.	Exposure limit values
xylene	1330-20-7	<b>Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (J of Laws 2018, item 1286) (Poland, 11/2017).</b> TWA: 100 mg/m <sup>3</sup> 8 hours.
n-butyl acetate	123-86-4	<b>Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (J of Laws 2018, item 1286) (Poland, 7/2018).</b> TWA: 240 mg/m <sup>3</sup> 8 hours. STEL: 720 mg/m <sup>3</sup> 15 minutes.
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	108-65-6	<b>Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (J of Laws 2018, item 1286) (Poland, 11/2017).</b> TWA: 260 mg/m <sup>3</sup> 8 hours. STEL: 520 mg/m <sup>3</sup> 15 minutes.
ethylbenzene	100-41-4	<b>Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (J of Laws 2018, item 1286) (Poland, 11/2017).</b> TWA: 200 mg/m <sup>3</sup> 8 hours. STEL: 400 mg/m <sup>3</sup> 15 minutes.
DIISOBUTYL KETONE	108-83-8	<b>Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018, regarding the</b>

**SECTION 8: Exposure controls/personal protection**

toluene	108-88-3	<p><b>highest permissible concentrations and values of agents harmful to health in the work environment (J of Laws 2018, item 1286) (Poland, 11/2017).</b> TWA: 150 mg/m<sup>3</sup> 8 hours. STEL: 300 mg/m<sup>3</sup> 15 minutes.</p> <p><b>Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (J of Laws 2018, item 1286) (Poland, 11/2017).</b> TWA: 100 mg/m<sup>3</sup> 8 hours. STEL: 200 mg/m<sup>3</sup> 15 minutes.</p>
copper	7440-50-8	<p><b>Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (J of Laws 2018, item 1286) (Poland, 11/2017).</b> TWA: 0.2 mg/m<sup>3</sup>, (calculated as Cu) 8 hours.</p>

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**DNELs/DMELs**

Product/ingredient name	Type	Exposure	Value	Population	Effects
xylene	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	14.8 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	77 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	108 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	289 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	289 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	50.17 ppm	Workers	Systemic
	DNEL	Long term Dermal	3182 mg/kg bw/day	Workers	Systemic
n-butyl acetate	DNEL	Long term Oral	3.4 mg/kg bw/day	General population	Systemic



**SECTION 8: Exposure controls/personal protection**

PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	DNEL	Long term Dermal	3.4 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	12 mg/m <sup>3</sup>	General population	Systemic	
	DNEL	Long term Inhalation	48 mg/m <sup>3</sup>	Workers	Systemic	
	DNEL	Long term Inhalation	102.34 mg/ m <sup>3</sup>	General population	Local	
	DNEL	Long term Inhalation	480 mg/m <sup>3</sup>	Workers	Local	
	DNEL	Short term Inhalation	859.7 mg/ m <sup>3</sup>	General population	Local	
	DNEL	Short term Inhalation	859.7 mg/ m <sup>3</sup>	General population	Systemic	
	DNEL	Short term Inhalation	960 mg/m <sup>3</sup>	Workers	Local	
	DNEL	Short term Inhalation	960 mg/m <sup>3</sup>	Workers	Systemic	
	DNEL	Long term Dermal	11 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	6.2 ppm	Workers	Systemic	
	DNEL	Long term Oral	1.67 mg/ kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	33 mg/m <sup>3</sup>	General population	Local	
	DNEL	Long term Inhalation	33 mg/m <sup>3</sup>	General population	Systemic	
	DNEL	Long term Dermal	54.8 mg/ kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	153.5 mg/ kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	275 mg/m <sup>3</sup>	Workers	Systemic	
	ethylbenzene	DNEL	Short term Inhalation	550 mg/m <sup>3</sup>	Workers	Local
		DNEL	Long term Inhalation	50.132 ppm	Workers	Systemic
DNEL		Long term Dermal	796 mg/kg bw/day	Workers	Systemic	
DNEL		Long term Oral	1.6 mg/kg bw/day	General population	Systemic	
DNEL		Long term Inhalation	15 mg/m <sup>3</sup>	General population	Systemic	
DNEL		Long term Inhalation	77 mg/m <sup>3</sup>	Workers	Systemic	
DNEL		Long term Dermal	180 mg/kg bw/day	Workers	Systemic	
DNEL		Short term Inhalation	293 mg/m <sup>3</sup>	Workers	Local	
DMEL		Long term Inhalation	442 mg/m <sup>3</sup>	Workers	Local	
DMEL		Short term Inhalation	884 mg/m <sup>3</sup>	Workers	Systemic	

**SECTION 8: Exposure controls/personal protection**

DIISOBUTYL KETONE	DNEL	Long term Inhalation	17.73 ppm	Workers	Systemic	
	DNEL	Long term Oral	7.14 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	28.5 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	80 mg/kg bw/day	Workers	Systemic	
	DNEL	Short term Inhalation	145 mg/m <sup>3</sup>	General population	Local	
	DNEL	Long term Inhalation	145 mg/m <sup>3</sup>	General population	Local	
	DNEL	Short term Inhalation	145 mg/m <sup>3</sup>	General population	Systemic	
	DNEL	Long term Inhalation	171 mg/m <sup>3</sup>	General population	Systemic	
	DNEL	Short term Inhalation	290 mg/m <sup>3</sup>	Workers	Local	
	DNEL	Long term Inhalation	290 mg/m <sup>3</sup>	Workers	Local	
	DNEL	Short term Inhalation	290 mg/m <sup>3</sup>	Workers	Systemic	
	DNEL	Long term Inhalation	479 mg/m <sup>3</sup>	Workers	Systemic	
	DNEL	Long term Inhalation	81.3 ppm	Workers	Systemic	
	Solvent naphtha (petroleum), light arom.	DNEL	Long term Inhalation	30.1 ppm	Workers	Systemic
	ethyl 3-ethoxypropionate	DNEL	Long term Dermal	25 mg/kg bw/day	Workers	Systemic
DNEL		Long term Oral	1.2 mg/kg bw/day	General population	Systemic	
DNEL		Long term Dermal	24.2 mg/kg bw/day	General population	Systemic	
DNEL		Long term Inhalation	72.6 mg/m <sup>3</sup>	General population	Local	
DNEL		Long term Inhalation	72.6 mg/m <sup>3</sup>	General population	Systemic	
DNEL		Long term Dermal	102 mg/kg bw/day	Workers	Systemic	
DNEL		Long term Inhalation	610 mg/m <sup>3</sup>	Workers	Local	
DNEL		Long term Inhalation	610 mg/m <sup>3</sup>	Workers	Systemic	
DNEL		Long term Inhalation	100.6 ppm	Workers	Systemic	
toluene		DNEL	Long term Oral	8.13 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	56.5 mg/m <sup>3</sup>	General population	Local	
	DNEL	Long term Inhalation	56.5 mg/m <sup>3</sup>	General population	Systemic	
	DNEL	Long term Inhalation	192 mg/m <sup>3</sup>	Workers	Local	
	DNEL	Long term Inhalation	192 mg/m <sup>3</sup>	Workers	Systemic	

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2-ETHYLHEXYL METHACRYLATE	DNEL	Long term Dermal	226 mg/kg bw/day	General population	Systemic	
	DNEL	Short term Inhalation	226 mg/m³	General population	Local	
	DNEL	Short term Inhalation	226 mg/m³	General population	Systemic	
	DNEL	Long term Dermal	384 mg/kg bw/day	Workers	Systemic	
	DNEL	Short term Inhalation	384 mg/m³	Workers	Local	
	DNEL	Short term Inhalation	384 mg/m³	Workers	Systemic	
	DNEL	Long term Inhalation	50.3 ppm	Workers	Systemic	
	DNEL	Long term Dermal	5 mg/kg bw/day	Workers	Systemic	
	DNEL	Short term Dermal	1 %	Workers	Local	
	DNEL	Long term Dermal	1 %	Workers	Local	
	copper	DNEL	Long term Inhalation	0.3 ppm	Workers	Systemic
		DNEL	Short term Inhalation	1 mg/m³	General population	Local
		DNEL	Long term Inhalation	1 mg/m³	General population	Local
		DNEL	Short term Inhalation	20 mg/m³	General population	Systemic
		DNEL	Short term Inhalation	20 mg/m³	Workers	Systemic
		DNEL	Long term Dermal	137 mg/kg bw/day	General population	Systemic
		DNEL	Long term Dermal	137 mg/kg bw/day	Workers	Systemic
		DNEL	Short term Dermal	273 mg/kg bw/day	General population	Systemic
DNEL		Short term Dermal	273 mg/kg bw/day	Workers	Systemic	

**PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
n-butyl acetate	Soil	0.09 mg/kg	-
	Fresh water	0.18 mg/l	-
	Sewage Treatment Plant	35.6 mg/l	-
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	Marine water	0.018 mg/l	-
	Soil	0.29 mg/kg	-
	Sediment	0.329 mg/kg	-
ethylbenzene	Sewage Treatment Plant	100 mg/l	-
	Marine water	0.0635 mg/l	-
	Fresh water	0.635 mg/l	-
	Sewage Treatment Plant	9.6 mg/l	-
	Marine water	0.01 mg/l	-
	Fresh water	0.1 mg/l	-
	Soil	2.68 mg/kg	-

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DIISOBUTYL KETONE	Sediment	1.37 mg/kg	-
	Marine water	0.003 mg/l	-
	Fresh water	0.03 mg/l	-
ethyl 3-ethoxypropionate	Sediment	0.46 mg/l	-
	Marine water	0.00609 mg/l	-
	Fresh water	0.0609 mg/l	-
toluene	Sediment	0.0419 mg/l	-
	Fresh water	0.68 mg/l	-
	Sediment	16.39 mg/l	-
2-ETHYLHEXYL METHACRYLATE	Soil	0.446 mg/kg	-
	Sewage Treatment Plant	10 mg/l	-
	Fresh water	0.00348 mg/l	-
	Sediment	2.24 mg/kg	-

**8.2 Exposure controls**

**Appropriate engineering controls** : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

**Individual protection measures**

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Use safety eyewear designed to protect against splash of liquids.

**Skin protection**

**Body protection** : Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.

Dry sanding, flame cutting and/or welding of the dry paint film will give rise to dust and/or hazardous fumes. Wet sanding/flattening should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.

**Environmental exposure controls** : Do not allow to enter drains or watercourses.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****Appearance**

**Physical state** : Liquid.

**Colour** : Diverse.

**Odour** : Not available.

**Odour threshold** : Not available.

## SECTION 9: Physical and chemical properties

<b>pH</b>	: Not applicable.
<b>Melting point/freezing point</b>	: Not applicable.
<b>Initial boiling point and boiling range</b>	: Not applicable.
<b>Flash point</b>	: Closed cup: 24°C
<b>Evaporation rate</b>	: Not available.
<b>Flammability (solid, gas)</b>	: Not available.
<b>Lower and upper explosive (flammable) limits</b>	: Lower: 1% Upper: 7.5%
<b>Vapour pressure</b>	: 1.1 kPa [room temperature]
<b>Vapour density</b>	: 3.7 [Air = 1]
<b>Relative density</b>	: 0.957 g/cm <sup>3</sup>
<b>Solubility(ies)</b>	: Partially soluble in the following materials: cold water.
<b>Partition coefficient: n-octanol/ water</b>	: Not available.
<b>Auto-ignition temperature</b>	: 272°C
<b>Decomposition temperature</b>	: Not applicable.
<b>Viscosity</b>	: Dynamic (room temperature): 150 mPa·s Kinematic (room temperature): 1.57 cm <sup>2</sup> /s
<b>Explosive properties</b>	: Not available.
<b>Oxidising properties</b>	: Not available.
<b>Weight volatiles</b>	: 69.7 % (w/w)
<b>VOC content</b>	: 69.7 % (w/w)
<b>9.2 Other information</b>	
<b>Solubility in water</b>	: Not available. <i>room temperature (=20°C)</i>

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: Stable under recommended storage and handling conditions (see Section 7).
<b>10.3 Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: When exposed to high temperatures may produce hazardous decomposition products.
<b>10.5 Incompatible materials</b>	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
<b>10.6 Hazardous decomposition products</b>	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen. Not applicable

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains 2-ETHYLHEXYL METHACRYLATE. May produce an allergic reaction.

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
n-butyl acetate	LC50 Inhalation Vapour	Rat	21.1 mg/l	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	8532 mg/kg	-
ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
DIISOBUTYL KETONE	LD50 Dermal	Rabbit	16120 mg/kg	-
	LD50 Oral	Rat	5750 mg/kg	-
PROPYLENEGLYCOLDIACETATE	LD50 Oral	Rat	13530 mg/kg	-
	LD50 Dermal	Rabbit	3492 mg/kg	-
Solvent naphtha (petroleum), light arom.	LD50 Oral	Rat	8400 mg/kg	-
	LD50 Dermal	Rat - Male	4080 mg/kg	-
	LD50 Oral	Rat	3200 mg/kg	-
toluene	LC50 Inhalation Vapour	Rat	49 g/m <sup>3</sup>	4 hours
	LD50 Dermal	Rat	5001 mg/kg	-
	LD50 Oral	Rat	5001 mg/kg	-
	TDL <sub>o</sub> Dermal	Rat	26.4 mg/kg	-

**Conclusion/Summary** : Not available.

#### Acute toxicity estimates

**SECTION 11: Toxicological information**

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
DuPont™ MB-46701 Marine Finishes Basecoat	N/A	4024	17106.7	149.9	N/A
xylene	4300	1100	5000	N/A	N/A
n-butyl acetate	10768	N/A	N/A	21.1	N/A
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	8532	N/A	N/A	N/A	N/A
ethylbenzene	3500	N/A	N/A	11	N/A
DIISOBUTYL KETONE	5750	16120	N/A	N/A	N/A
PROPYLENEGLYCOLDIACETATE	13530	N/A	N/A	N/A	N/A
Solvent naphtha (petroleum), light arom.	8400	3492	N/A	N/A	N/A
ethyl 3-ethoxypropionate	3200	4080	N/A	N/A	N/A
toluene	5001	5001	N/A	49	N/A

**Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Eyes - Mild irritant	Rabbit	-	87 milligrams	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5 milligrams	-
	Skin - Mild irritant	Rat	-	8 hours 60 microliters	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
ethylbenzene	Skin - Moderate irritant	Rabbit	-	100 Percent	-
	Skin - Mild irritant	Rabbit	-	24 hours 15 milligrams	-
DIISOBUTYL KETONE	Eyes - Mild irritant	Human	-	15 minutes 25 parts per million	-
	Eyes - Mild irritant	Rabbit	-	500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 10 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
PROPYLENEGLYCOLDIACETATE	Eyes - Moderate irritant	Rabbit	-	500 milligrams	-
	Skin - Mild irritant	Human	-	72 hours 107 milligrams Intermittent	-
ethyl 3-ethoxypropionate	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
toluene	Skin - Mild irritant	Pig	-	24 hours 250 microliters	-
	Skin - Mild irritant	Rabbit	-	435 milligrams	-

**Conclusion/Summary** : Not available.**Sensitisation****Conclusion/Summary** : Not available.

**SECTION 11: Toxicological information****Mutagenicity****Conclusion/Summary** : Not available.**Carcinogenicity****Conclusion/Summary** : Not available.**Reproductive toxicity****Conclusion/Summary** : Not available.**Teratogenicity****Conclusion/Summary** : Not available.**Specific target organ toxicity (single exposure)**

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 3	Not applicable.	Respiratory tract irritation
n-butyl acetate	Category 3	Not applicable.	Narcotic effects
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	Category 3	Not applicable.	Narcotic effects
Solvent naphtha (petroleum), light arom.	Category 3	Not applicable.	Narcotic effects
	Category 3	Not applicable.	Respiratory tract irritation
toluene	Category 3	Not applicable.	Narcotic effects
2-ETHYLHEXYL METHACRYLATE	Category 3	Not applicable.	Respiratory tract irritation

**Specific target organ toxicity (repeated exposure)**

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	Not determined	Not determined
toluene	Category 2	Inhalation	central nervous system (CNS)

**Aspiration hazard**

Product/ingredient name	Result
xylene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), light arom.	ASPIRATION HAZARD - Category 1
toluene	ASPIRATION HAZARD - Category 1

**Other information** : Not available.**SECTION 12: Ecological information****12.1 Toxicity**

There are no data available on the mixture itself.  
Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as hazardous to the environment, but contains substance(s) hazardous to the environment. See section 3 for details.



**SECTION 12: Ecological information**

Product/ingredient name	Result	Species	Exposure
xylene	EC50 3.82 mg/l	Crustaceans - Penaeus monodon	48 hours
n-butyl acetate ethylbenzene	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 185000 µg/l Marine water	Fish - Menidia beryllina	96 hours
	Acute LC50 13.3 mg/l Marine water	Crustaceans - Artemia sp. - Nauplii	48 hours
toluene	Acute LC50 13.9 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute EC50 12500 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 5.56 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
copper	Acute LC50 5500 µg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 2 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Acute EC50 1100 µg/l Fresh water	Aquatic plants - Lemna minor	4 days
	Acute IC50 13 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Acute IC50 5.4 mg/l Marine water	Aquatic plants - Plantae - Exponential growth phase	72 hours
	Chronic NOEC 7 mg/l Fresh water	Aquatic plants - Ceratophyllum demersum	3 days

**Conclusion/Summary** : Not available.

**12.2 Persistence and degradability**

Product/ingredient name	Test	Result	Dose	Inoculum
xylene	OECD 301 F	90 % - 28 days	-	-

**Conclusion/Summary** : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene	-	-	Readily
toluene	-	-	Readily

**12.3 Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
xylene	3.12	8.1 to 25.9	low
n-butyl acetate	2.3	-	low
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	0.56	-	low
ethylbenzene	3.6	-	low
DIISOBUTYL KETONE	3.1	-	low
PROPYLENEGLYCOLDIACETATE	2.9	-	low
Solvent naphtha (petroleum), light arom.	-	10 to 2500	high
ethyl 3-ethoxypropionate	1.47	-	low

**SECTION 12: Ecological information**

toluene	2.73	90	low
2-ETHYLHEXYL METHACRYLATE	4.54	37	low

**12.4 Mobility in soil**

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

**12.5 Results of PBT and vPvB assessment**

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

**SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

**13.1 Waste treatment methods****Product**

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : Yes.

**Disposal considerations** : Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

**European waste catalogue (EWC)**

The European Waste Catalogue classification of this product, when disposed of as waste, is:

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

**Packaging**

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.





**Disposal considerations** : Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.

**SECTION 13: Disposal considerations**

Type of packaging	European waste catalogue (EWC)	
CEPE Paint Guidelines	15 01 10*	packaging containing residues of or contaminated by hazardous substances

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

**SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3 	3 	3 	3 
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	No.	Yes.	No.	No.

**Additional information**

**ADR/RID** : **Tunnel code** (D/E)

**ADN** : The product is only regulated as an environmentally hazardous substance when transported in tank vessels.

**14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** : Not applicable.

The actual shipping description for this product may vary based several factors including, but not limited to, the volume of material, size of the container, mode of transport and use of exemptions or exceptions found in the applicable regulations. The information provided in Section 14 is one possible shipping description for this product. Consult your shipping specialist or supplier for appropriate assignment information.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU Regulation (EC) No. 1907/2006 (REACH)

##### Annex XIV - List of substances subject to authorisation

###### Annex XIV

None of the components are listed.

###### Substances of very high concern

None of the components are listed.

**Annex XVII - Restrictions** : Restricted to professional users.  
**on the manufacture,  
placing on the market  
and use of certain  
dangerous substances,  
mixtures and articles**

#### Other EU regulations

##### Seveso Directive

This product may add to the calculation for determining whether a site is within the scope of the Seveso Directive on major accident hazards.

#### National regulations

**Industrial use** : The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

**15.2 Chemical safety assessment** : No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

**CEPE code** : 1

🔍 Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EUH statement = CLP-specific Hazard statement  
N/A = Not available  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RRN = REACH Registration Number

**SECTION 16: Other information**

vPvB = Very Persistent and Very Bioaccumulative

**Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

Classification	Justification
Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT SE 3, H336	On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method

**Full text of abbreviated H statements**

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d (inhalation)	Suspected of damaging the unborn child if inhaled.
H373 (inhalation)	May cause damage to organs through prolonged or repeated exposure if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Full text of classifications [CLP/GHS]**

Acute Tox. 4, H312	ACUTE TOXICITY (dermal) - Category 4
Acute Tox. 4, H332	ACUTE TOXICITY (inhalation) - Category 4
Aquatic Acute 1, H400	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 2, H411	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3, H412	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1, H304	ASPIRATION HAZARD - Category 1
EUH066	Repeated exposure may cause skin dryness or cracking.
Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2, H225	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3, H226	FLAMMABLE LIQUIDS - Category 3
Repr. 2, H361d (inhalation)	REPRODUCTIVE TOXICITY (Unborn child) (inhalation) - Category 2
Skin Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1B, H317	SKIN SENSITISATION - Category 1B
STOT RE 2, H373 (inhalation)	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE (inhalation) - Category 2
STOT RE 2, H373	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3, H335	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3
STOT SE 3, H336	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3

**SECTION 16: Other information**

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**Date of previous issue** : No previous validation  
**Version** : 1

**Notice to reader**

**This product is intended for industrial use only.**

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